NSG-211US



IN THE UNITED STAFFES PATENT AND TRADEMARK OFFICE

Applicant:

Nobuyuki Komaba et al.

: Art Unit:

1-25-03

Serial No.:

10/088,268

: Examiner:

Filed:

March 14, 2002

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FOR:

LIGHT-RECEIVING ELEMENT

ARRAY

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

SIR:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (R&P) submitted herewith. A copy of each of the listed references is also enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

Japanese Patent Application Nos. 1-201971, 2-58878, 1-106342, 10-107310, 2-143471, 4-37066 and 11-150253 are not in the English language, an English abstract thereof is attached to the copies of the references submitted herewith.

No first Official Action has yet been received and it is presumed that none has yet been mailed.

No fee or certification is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,

Kenneth N. Nigon, Reg. No. 31,549

Attorney for Applicants

Encls.: PTO Form 1449,

Copy of (9) References

Search Report

Dated: April 25, 2002

Suite 301 One Westlakes, Berwyn P.O. Box 980 Valley Forge, PA 19482-0980 (610) 407-0700

The Assistant Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:

April 25, 2002

Kernieth N. Nigon

FORM PTO-1449

Sheet 1 of 1 SERIAL NO O I P ATTY. DOCKET NO. U.S. DEPARTMENT OF COMMERCE **FORM PTO-1449** 10/08/8,268 **NSG-211US** PATENT AND TRADEMARK OFFICE (Rev. 2-32) PATER MAY 1 0 2002 **APPLICANT** Information Disclosure Statement by Applicant Nobuyuki Komaba et al. GROURDADEMARY (Use several sheets if necessary) FILING DATE March 14, 2002

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
	5,288,989	2/22/94	Ishaque et al.			
	4,987,505	1/22/91	Iwabuchi et al.			
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FOREIGN PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Country	Class	Sub Class		lation NO
	01-201971	8/14/89	Japan			X	
	02-058878	2/28/90	Japan			X	
	01-106342	4/24/89	Japan			X	
	10-107310	4/24/98	Japan			X	
	02-143471	6/1/90	Japan			X	
	04-037066	2/7/92	Japan			X	
	11-150253	6/2/99	Japan			X	

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

	1)	PCT International Search Report, August 21, 2001
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Examiner	Date Considered

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	SIFICATION OF SUBJECT MATTER Cl ⁷ H01L31/105		
According to	o International Patent Classification (IPC) or to both na	ational classification and IPC	
	S SEARCHED		<u> </u>
Int.	ocumentation searched (classification system followed Cl ⁷ H01L31/10-31/119, H01L27/1	L4-27/148	
Jits	ion searched other than minimum documentation to the uyo Shinan Koho 1940-1996 i Jitsuyo Shinan Koho 1971-2001		oho 1994-2001
Electronic d	ata base consulted during the international search (nam	ne of data base and, where practicable, sea	rch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.
Y	JP 1-201971 A (Fujitsu Limited) 14 August, 1989 (14.08.89) (F	·	1-9
Y A	JP 2-58878 A (NEC Corporation), 28 February, 1990 (28.02.90)		1-6 7-15
Y A	US 5288989 A (Ishaque), 22 February, 1994 (22.02.94)	(Family: none)	1-6 7-15
A	JP 1-106342 A (Victor Company of 24 April, 1989 (24.04.89), & US 4987505 A	of Japan, Limited),	9
Y A	JP 10-107310 A (Japan Aviation 24 April, 1998 (24.04.98) (Fa	· · · · · · · · · · · · · · · · · · ·	10-13 14-15
Y A	JP 2-143471 A (Fujitsu Limited) 01 June, 1990 (01.06.90) (Fam	•	10-13 14-15
A	JP 4-37066 A (Fuji Xerox Co., I 07 February, 1992 (07.02.92)		14-15
Further	documents are listed in the continuation of Box C.	See patent family annex.	
"A" docume	categories of cited documents: ent defining the general state of the art which is not red to be of particular relevance	"T" later document published after the interpriority date and not in conflict with the understand the principle or theory under	e application but cited to
"L" docume	nt which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the c considered novel or cannot be consider step when the document is taken alone	laimed invention cannot be red to involve an inventive
"O" docume	establish the publication date of another citation or other reason (as specified) nt referring to an oral disclosure, use, exhibition or other	"Y" document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is documents, such
	nt published prior to the international filing date but later priority date claimed	"&" document member of the same patent fi	
	ctual completion of the international search ugust, 2001 (09.08.01)	Date of mailing of the international search 21 August, 2001 (21.	-
	ailing address of the ISA/ nese Patent Office	Authorized officer	
Facsimile No	Facsimile No. Telephone No.		



mational application No.
PCT/JP01/06121

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 11-150253 A (Hamamatsu Photonics K.K.), 02 June, 1999 (02.06.99) (Family: none)	14-15